

# **DART SERVICE INSTRUCTION**

TO AMEND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-607

REF. CANADIAN STC: SH94-14

REF. FAA STC: SR00213NY

REF. EASA STC: EASA.IM.R.S.01405

IN CASES WHERE THE D2325 GUSSETS HAVE SUSTAINED CONSIDERABLE DAMAGE, DSI 9342-011/-013 REPAIR KITS CAN BE PROCURED FROM DART TO REWORK EXISTING D350-607-041/-043 BASKET BASES ONLY. D350-607-045/-047 BASKET BASES CANNOT BE REWORKED TO THIS PROCEDURE. REPLACE THE D2325 GUSSETS BY T.I.G. WELDING AS FOLLOWS:

- 1) CLEAN AREA OF PAINT, ETC...
- 2) REMOVE EXISTING D2325 GUSSET(S) AS SHOWN IN FIGURE 1.
- 3) INSTALL REPLACEMENT D3929-041/-042 GUSSETS BY T.I.G. WELDING PER MIL-STD-2219/AMS-STD-2219 CLASS 'C' USING ER308L FILLER ROD AS SHOWN IN FIGURE 2.
- 4) TOUCH UP PAINT IN ACCORDANCE WITH ICA-D350-607 REV 0.
- 5) WHEN BASKET BASE IS REPAIRED, LONGER BOLTS OR QUICK RELEASE PINS ARE REQUIRED TO INSTALL THE BASKET ON AIRCRAFT. SUBSTITUTE EXISTING HARDWARE USING PARTS LISTED BELOW.
- 6) ADJUST WEIGHT AND BALANCE IN ACCORDANCE WITH THE TABLE ON SHEET 4.

## **PARTS LIST**

| QTY.<br>-011 | QTY.<br>-013 | PART NUMBER  | DESCRIPTION                           |
|--------------|--------------|--------------|---------------------------------------|
| X            |              | DSI 9342-011 | GUSSET REPAIR KIT                     |
|              | X            | DSI 9342-013 | GUSSET REPAIR KIT, QUICK RELEASE      |
| 2            | 2            | D3929-041    | GUSSET ASSY, LH                       |
| 2            | 2            | D3929-042    | GUSSET ASSY, RH                       |
| 4            |              | AN4-15A      | BOLT (REPLACES AN4-12A)               |
| 8            |              | AN960JD416   | WASHER                                |
|              | 4            | BLRS-020     | QUICK RELEASE PIN (REPLACES BLRS-010) |
| 4            |              | MS21042L4    | NUT                                   |

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



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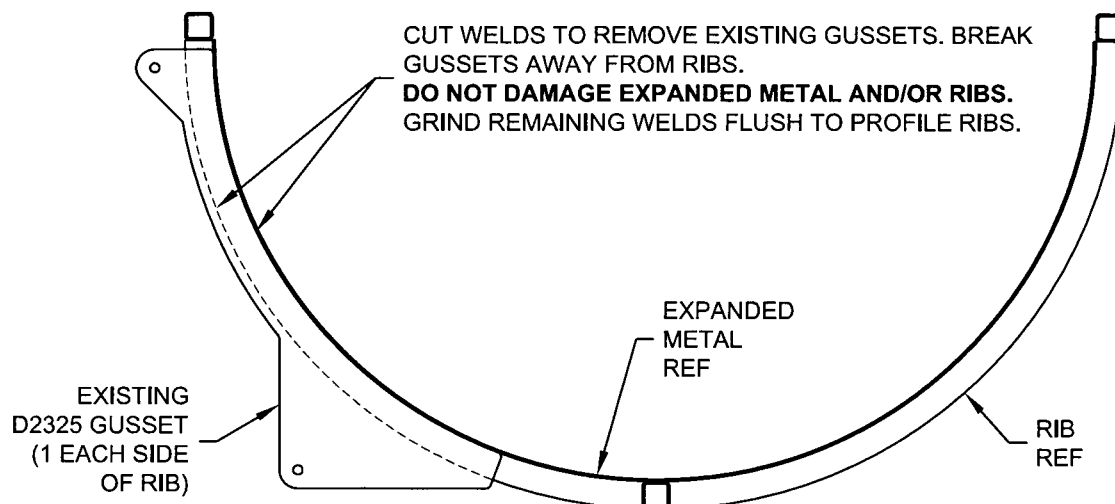
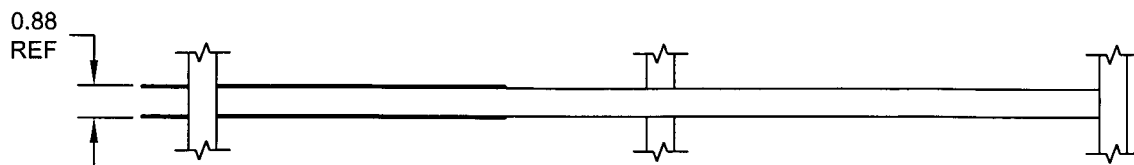
BY:   
D. SHEPHERD (DE # 02)

DATE: 09.04.06

CERT. NO.: SH94-14

ISSUE NO.: 4

|            |  |   |              |
|------------|--|---|--------------|
| B          | CREATION OF DSI KITS TO PROVIDE REPLACEMENT PARTS AND REQD HARDWARE. SEE NCR#09-042. | MB  | 09.04.06     |
| A          | NEW ISSUE  | PH  | 06.07.10     |
| REV.       | DESCRIPTION  | BY  | DATE         |
| DESIGN     |   | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA  |              |
| DRAWN      |   |   |              |
| CHECKED    |   | DRAWING NO.   | REV. B       |
| MFG. APPR. | N/A  | DSI 9342  | SHEET 1 OF 4 |
| APPROVED   |   | TITLE   | SCALE        |
| DE APPR.   |   | BASKET BASE WELD REPAIR   | NTS          |
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**FIGURE 1 - REMOVAL OF EXISTING D2325 GUSSETS**

(ON D350-607-041/-043 ONLY)

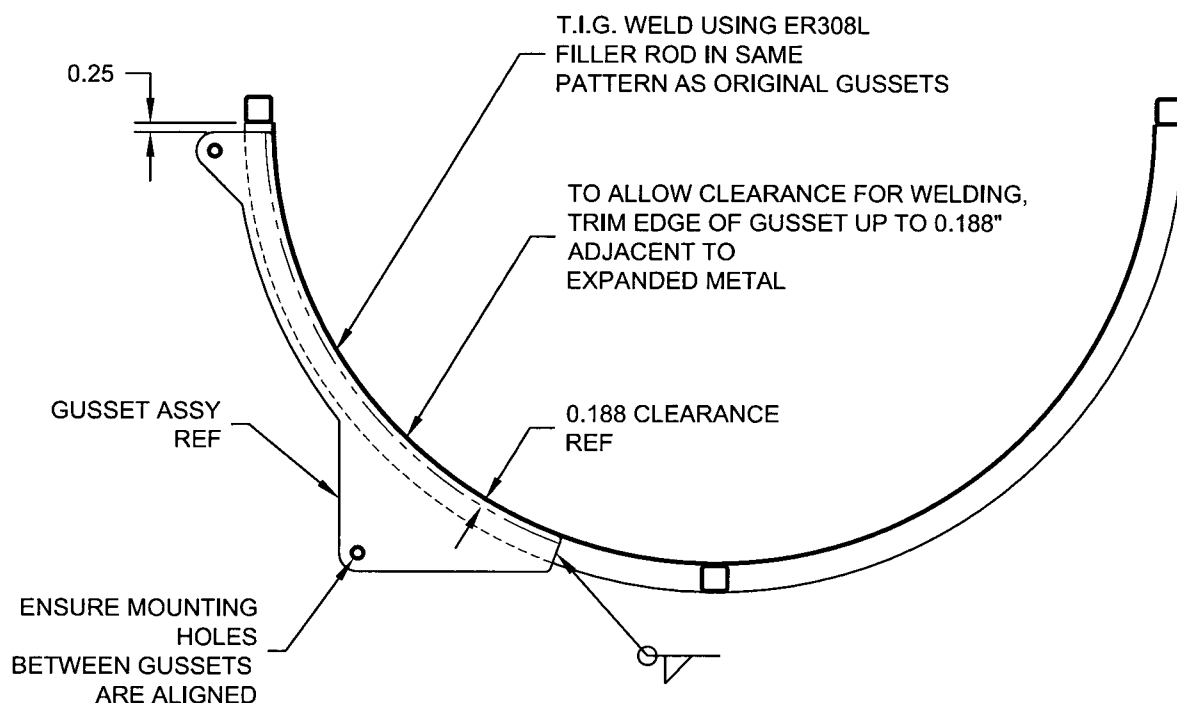
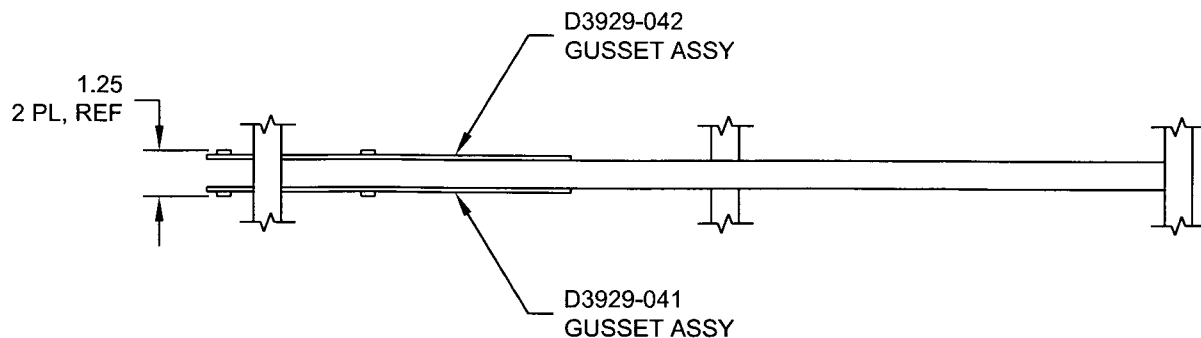
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| MFG. APPR. | N/A                | DSI 9342  | SHEET 2 OF 4 |
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**FIGURE 2 - INSTALLATION OF REPLACEMENT D3929-041/-042 GUSSETS**  
(ON D350-607-041/-043 ONLY)

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| DRAWN  | B        |   |              |
| CHECKED  | PH       | DRAWING NO.                                       | REV. B       |
| MFG. APPR.   | N/A      | DSI 9342  | SHEET 3 OF 4 |
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FOR D350-607-041 AT CHG 008, D350-607-043 AT CHG 005, AND D350-607-045/-047 AT CHG 003 AND SUBSEQUENT, THE INTENT OF DSI 9342 HAS BEEN INCORPORATED DURING MANUFACTURE. AMEND WEIGHT AND BALANCE AS OUTLINED BELOW. ALSO, THE PARTS LIST HAS BEEN AMENDED AS FOLLOWS:

| QTY.<br>-041 | QTY.<br>-043 | QTY.<br>-045 | QTY.<br>-047 | PART NUMBER  | DESCRIPTION                 |
|--------------|--------------|--------------|--------------|--------------|-----------------------------|
| X            |              |              |              | D350-607-041 | HELI-UTILITY BASKET         |
|              | X            |              |              | D350-607-043 | HELI-UTILITY BASKET         |
|              |              | X            |              | D350-607-045 | HELI-UTILITY BASKET (SHORT) |
|              |              |              | X            | D350-607-047 | HELI-UTILITY BASKET (SHORT) |

### IS:

|    |    |     |     |            |        |
|----|----|-----|-----|------------|--------|
| 1  | 1  | 1   | 1   | AN4-12A    | BOLT   |
| 4  | 4  | 4   | 4   | AN4-15A    | BOLT   |
| 28 | 40 | 30* | 42* | AN960JD416 | WASHER |

\*: EXTRA WASHERS REQUIRED TO MOUNT LID ON BASE DUE TO INCREASED THICKNESS OF GUSSETS AT BOTH ENDS OF BASKET BASE. LOCATE WASHERS BETWEEN BASE HINGE PLATE AND D2022-101 SPACER, TYPICAL BOTH ENDS.

### WAS:

|    |    |    |    |            |        |
|----|----|----|----|------------|--------|
| 5  | 5  | 5  | 5  | AN4-12A    | BOLT   |
| 28 | 40 | 28 | 40 | AN960JD416 | WASHER |

### WEIGHT & BALANCE

| INSTALLATION  | WEIGHT             | LATERAL           |                           | LONGITUDINAL     |                             |
|---|--------------------|-------------------|---------------------------|------------------|-----------------------------|
|   |                    | ARM               | MOMENT                    | ARM              | MOMENT                      |
| D350-607-041/-043 AT CHG 008/005<br>HELI-UTILITY BASKET     | 89.6 lb<br>40.6 kg | ±48 in<br>±1.22 m | ±4301 in-lb<br>±49.5 m-kg | 135 in<br>3.43 m | ±12096 in-lb<br>±139.3 m-kg |
| D350-607-045/-047 AT CHG 003<br>HELI-UTILITY BASKET (SHORT) | 66.6 lb<br>30.2 kg | ±48 in<br>±1.22 m | ±3197 in-lb<br>±36.8 m-kg | 135 in<br>3.43 m | ±8991 in-lb<br>±103.6 m-kg  |

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| MFG. APPR. | N/A   | DSI 9342   | SHEET 4 OF 4 |
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